

No.



201400043

# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

## Pioneer Hi-Bred International, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

An application requesting a certificate of protection for an alleged distinct variety of sexually reproduced, or tuber propagated plant, the name and description of which are contained in the application and exhibits, a copy of which is hereunto annexed and made a part hereof, and the various requirements of LAW in such cases made and provided have been complied with, and the title thereto is, from the records of the PLANT VARIETY PROTECTION OFFICE, in the applicant(s) indicated in the said copy, and Whereas, upon due examination made, the said applicant(s) is (are) adjudged to be entitled to a certificate of plant variety protection under the LAW.

Now, therefore, this certificate of plant variety protection is to grant unto the said applicant(s) and the successors, heirs or assigns of the said applicant(s) for the term of TWENTY years from the date of this grant, subject to the payment of the required fees and periodic replenishment of viable basic seed of the variety in a public repository as provided by LAW, the right to exclude others from selling the variety, or offering it for sale, or reproducing it, or importing it, or exporting it, or conditioning it for propagation, or stocking it for any of the above purposes, or using it in producing a hybrid or different variety therefrom, to the extent provided by the PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

CORN, FIELD

'PHIJYB'



Attest:

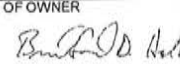
In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this eleventh day of September, in the year two thousand and fourteen.

Commissioner  
Plant Variety Protection Office  
Agricultural Marketing Service

Secretary of Agriculture

REPRODUCE LOCALLY. Include form number and date on all reproductions

Form Approved - OMB No. 0581-0055

<b>U.S. DEPARTMENT OF AGRICULTURE</b> <b>AGRICULTURAL MARKETING SERVICE</b> <b>SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE</b>		The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.  Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).	
<b>APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE</b> <i>(Instructions and information collection burden statement on reverse)</i>			
1. NAME OF OWNER		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME	3. VARIETY NAME
<b>Pioneer Hi-Bred International, Inc.</b>			<b>PH1JYB</b>
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)		5. TELEPHONE (include area code)	FOR OFFICIAL USE ONLY
<b>7100 NW 62nd Avenue</b> <b>P.O. Box 1014</b> <b>Johnston, Iowa 50131-1014 USA</b>		<b>(515) 535-<del>6975</del> 3200</b>	PVPO NUMBER
		6. FAX (include area code)	201400043
		<b>(515) 535-<del>2125</del> 4590</b>	FILING DATE
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.)	8. IF INCORPORATED, GIVE STATE OF INCORPORATION	9. DATE OF INCORPORATION	October 31, 2013
<b>Corporation</b>	<b>Iowa</b>	<b>March 5, 1999</b>	
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers)			FILING AND EXAMINATION FEES:
<b>Debra Phillips</b> <del>Bradford D. Hall</del> <b>7250 NW 62nd Avenue</b> <b>Pioneer Hi-Bred International, Inc.</b> <b>Crop Genetics Research and Development</b> <b>PO Box <del>85-552</del> 0552</b> <b>Johnston, Iowa 50131-<del>0085</del> USA</b>			\$ 4382.00 DATE 10/31/2013 CERTIFICATION FEE: \$ DATE
11. TELEPHONE (Include area code)	12. FAX (Include area code)	13. E-MAIL	
<b>(515) 535-<del>6975</del> 3305</b>	<b>(515) 535-<del>2125</del> 6883</b>	<b>PVP.com@pioneer.com</b> <del>brad.hall@pioneer.com</del>	
14. CROP KIND (Common Name)	16. FAMILY NAME (Botanical)	18. DOES THE VARIETY CONTAIN ANY TRANSGENES? (OPTIONAL)	
<b>Corn</b>	<b>Gramineae</b>	<input type="checkbox"/> YES <input type="checkbox"/> NO	
15. GENUS AND SPECIES NAME OF CROP	17. IS THE VARIETY A FIRST GENERATION HYBRID?	IF SO, PLEASE GIVE THE ASSIGNED USDA-APHIS REFERENCE NUMBER FOR THE APPROVED PETITION TO DEREGULATE THE GENETICALLY MODIFIED PLANT FOR COMMERCIALIZATION.	
<b>Zea mays</b>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
19. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)		20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD ONLY AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act)	
a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of Variety d. <input type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership f. <input checked="" type="checkbox"/> Exhibit F. Declaration Regarding Deposit g. <input checked="" type="checkbox"/> Voucher Sample (3,000 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository) h. <input checked="" type="checkbox"/> Filing and Examination Fee (\$4,382), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)		<input type="checkbox"/> YES (If "yes", answer items 21 and 22 below) <input checked="" type="checkbox"/> NO (If "no", go to item 23) <input type="checkbox"/> UNDECIDED	
		21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES?	
		<input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, WHICH CLASSES? <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED	
		22. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?	
		<input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS. <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED <i>(If additional explanation is necessary, please use the space indicated on the reverse.)</i>	
23. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES?		24. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)?	
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)	
25. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.			
The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.			
Owner(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.			
SIGNATURE OF OWNER		SIGNATURE OF OWNER	
		 Digitally signed by Bradford D. Hall Date: 2013.10.30 09:50:01 -05'00'	
NAME (Please print or type)		NAME (Please print or type)	
		<b>Bradford D. Hall</b>	
CAPACITY OR TITLE	DATE	CAPACITY OR TITLE	DATE
		<b>Sr. Research Associate</b>	<b>10/30/13</b>

**GENERAL INSTRUCTIONS:** To be effectively filed with the Plant Variety Protection Office (PVPO), **ALL** of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E, F; (3) for a tuber reproduced variety, verification that a viable (*in the sense that it will reproduce an entire plant*) tissue culture will be deposited and maintained in an approved public repository; and (4) payment by credit card or check drawn on a U.S. bank for \$4,382 (\$518 filing fee and \$3,864 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice). **NEW:** With the application for a seed reproduced variety or by direct deposit soon after filing, the applicant must provide at least 3,000 viable untreated seeds of the variety *per se*, and for a hybrid variety at least 3,000 untreated seeds of each line necessary to reproduce the variety. Partial applications will be held in the PVPO for not more than 90 days; then returned to the applicant as un-filed. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. **DO NOT** use masking materials to make corrections. If a certificate is allowed, you will be requested to send a payment by credit card or check payable to "Treasurer of the United States" in the amount of \$768 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

**NOTES:** It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

**Plant Variety Protection Office**  
**Telephone:** (301) 504-5518 **FAX:** (301) 504-5291  
**General E-mail:** PVP@mail.usda.gov  
**Homepage:** <http://www.ams.usda.gov/science/pvpo/PVPindex.htm>

#### SPECIFIC INSTRUCTIONS:

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and provide evidence that the permanent name of the application variety (even if it is a parental, inbred line) has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: U.S. Department of Agriculture, Agricultural Marketing Service, Livestock and Seed Programs, **Seed Regulatory and Testing Branch**, 801 Summit Crossing Place, Suite C, Gastonia, North Carolina 28054-2193 Telephone: (704) 810-8870. <http://www.ams.usda.gov/lsg/seed.htm>.

#### ITEM

- 19a. Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;  
 (2) the details of subsequent stages of selection and multiplication;  
 (3) evidence of uniformity and stability; and  
 (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:  
 (1) identify these varieties and state all differences objectively;  
 (2) attach replicated statistical data for characters expressed numerically and demonstrate that these are clear differences; and  
 (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
20. If "Yes" is specified (*seed of this variety be sold by variety name only, as a class of certified seed*), the applicant **MAY NOT** reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.

22. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)

23. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

24. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

USPTO 2/21/2012 Application No. 13/400,621

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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## CLARIFICATION OF DATA IN EXHIBITS B AND C

Please note the data presented in Exhibit B and C, "Objective Description of Variety," are collected primarily at Johnston and/or Dallas Center, Iowa. The data in Table 1 are from two sample t-tests using data collected in Johnston and Dallas Center, IA. These traits in Exhibit B collectively show distinct differences between the two varieties.

For the given year of data collection, our experimental design was set up in a typical complete block design commonly used in agricultural corn research experiments with two replications grown at each location. The experimental procedures generally involve two locations/environments with different planting dates, planted in 13 or 17.42 ft. rows with 2 row plots (group) for each variety. Approximately 20-30 plants emerged in each of the 2 rows for a total of around 80 to 120 plants being evaluated at each location and 160 to 240 plants across locations. For plant level traits, we sampled up to 20 representative plants from each location. For plot level traits we evaluated the 2 row plot (group) and gave a representative score or average on the 80-120 plants in the group within an experiment.

Month	GROWING DEGREE UNITS (GDUs)		PRECIPITATION (Inches)	
	2011		2011	
	Dallas Center	Johnston	Dallas Center	Johnston
May	415	415	5.28	8.45
June	623	629	8.22	8.93
July	840	888	1.47	3.5
August	678	760	0.94	4.49
September	381	253*	0.4	1.32*
<b>TOTAL</b>	<b>2937</b>	<b>2692</b>	<b>16.31</b>	<b>25.37</b>

\*Please note: due to equipment failure, September weather data from the Johnston location is thru 9/17

Growing Degree Units use following formula:  $GDU = ((T1+T2)/2)-50$

Where T1 = minimum temperature for a given day with 50 degrees Fahrenheit as the minimum temperature used and 86 degrees Fahrenheit is the maximum temperature used.

Where T2 = maximum temperature for a given day with 86 degrees Fahrenheit as the maximum temperature used and 50 degrees Fahrenheit is the minimum temperature used.

GDUs are calculated each day and accumulated (summed) over certain number of days.

## Exhibit A: Origin and Breeding History for PH1JYB

Pioneer variety **PH1JYB**, an inbred of yellow corn (*Zea mays* L.), was developed by Pioneer Hi-Bred International, Inc. from a cross made in 2005 in Cairo, Georgia between PH8JV (PVP Certificate No. 200600196) x PHPAR (PVP Certificate No. 200800249) using the pedigree method of plant breeding. Varieties PH8JV and PHPAR are proprietary inbred lines of Pioneer Hi-Bred International, Inc.

During line development, crosses were made to inbred testers for the purpose of estimating hybrid combining ability. Yield trials were grown at Union City, Tennessee and other Pioneer research locations.

The criteria used in the selection of **PH1JYB** were yield per se and yield in hybrid combination. Late season plant health, grain quality, and stalk lodging resistance were important criteria considered during selection. Other selection criteria include: ability to germinate in adverse conditions, disease and insect resistance, pollen production and tassel size.

Variety **PH1JYB** has shown uniformity and stability for 3 generations and for all traits observed as described in Exhibit C – Objective Description of Variety.

No variants have been observed or are expected in **PH1JYB**.

### Developmental History

- The initial cross PH8JV x PHPAR was made in Cairo, Georgia in 2005.
- The F1 seed was planted at Kekaha, Kauai, Hawaii in 2005 and self-pollinated. The F2 seed was bulked.
- The F2 seed was planted at Union City, Tennessee in 2006 and self-pollinated. The F3 ears were selected.
- The F3 seed was planted ear-to-row at Union City, Tennessee in 2007 and self-pollinated. The F4 ears were selected.
- The F4 seed was planted ear-to-row at Union City, Tennessee in 2008 and self-pollinated. The F5 ears were selected.
- The F5 seed was planted ear-to-row at Puerto Vallarta, Mexico in 2008 and self-pollinated. The F6 ears were selected.
- The F6 seed was planted ear-to-row at Union City, Tennessee in 2009 and self-pollinated. The F7 ears were selected.
- The F7 seed was planted ear-to-row in Salinas, Puerto Rico in 2009 and self-pollinated. The resulting F8 seed was bulked as breeder seed.

**Exhibit B: Statement of Distinctness**

Variety PH1JYB is most similar to Pioneer Hi-Bred International, Inc. proprietary inbred line PHC77 (PVP Certificate No. 200500256). Variety PH1JYB is significantly different from PHC77 in the following traits (see Table 1).

**Variety PH1JYB has :**

- a shorter average leaf length (78.0 cm for PH1JYB vs 83.9 cm for PHC77)
- a lesser average number of leaves above the top ear (5.8 leaves for PH1JYB vs 6.9 leaves for PHC77)
- a taller average plant height (228.9 cm for PH1JYB vs 215.1 cm for PHC77)
- a shorter average tassel central spike length (26.6 cm for PH1JYB vs 32.0 cm for PHC77)
- pink-orange colored anthers (pink-orange, 10R5/8 for PH1JYB vs pale yellow, 7.5Y8/6 for PHC77)

Table 1: Data supporting differences between PH1JYB and PHC77. The varieties were grown in two locations having different planting dates and growing environments. A two-sample t-test was used to compare differences between means.

**leaf length**

Year	Location	VARIETY-1	VARIETY-2	Count-1	Count-2	Mean-1	Mean-2	Diff	Stdev-1	Stdev-2	SEdiff	t-value	prob
2011	DC*	PH1JYB	PHC77	20	20	78.6	85.0	-6.4	2.28	2.66	0.78	-8.18	0.000
2011	JH*	PH1JYB	PHC77	20	20	77.4	82.7	-5.4	2.35	3.08	0.87	-6.18	0.000

**number of leaves above the top ear**

Year	Location	VARIETY-1	VARIETY-2	Count-1	Count-2	Mean-1	Mean-2	Diff	Stdev-1	Stdev-2	SEdiff	t-value	prob
2011	DC	PH1JYB	PHC77	20	20	5.9	6.9	-1.0	0.37	0.49	0.14	-7.32	0.000
2011	JH	PH1JYB	PHC77	20	20	5.7	6.9	-1.1	0.57	0.59	0.18	-6.28	0.000

**plant height**

Year	Location	VARIETY-1	VARIETY-2	Count-1	Count-2	Mean-1	Mean-2	Diff	Stdev-1	Stdev-2	SEdiff	t-value	prob
2011	DC	PH1JYB	PHC77	20	20	230.5	217.3	13.2	6.01	6.67	2.01	6.57	0.000
2011	JH	PH1JYB	PHC77	20	20	227.3	212.9	14.4	8.26	6.34	2.33	6.19	0.000

**tassel central spike length**

Year	Location	VARIETY-1	VARIETY-2	Count-1	Count-2	Mean-1	Mean-2	Diff	Stdev-1	Stdev-2	SEdiff	t-value	prob
2011	DC	PH1JYB	PHC77	20	20	28.2	32.0	-3.9	2.35	2.62	0.79	-4.90	0.000
2011	JH	PH1JYB	PHC77	20	20	25.0	31.9	-6.9	1.84	2.61	0.71	-9.66	0.000

\*(DC = Dallas Center, Iowa. JH = Johnston, Iowa)

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Form Approved OMB NO 0581-0055

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U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
SCIENCE AND TECHNOLOGY  
PLANT VARIETY PROTECTION OFFICE  
BELTSVILLE, MD 20705

Exhibit C

OBJECTIVE DESCRIPTION OF VARIETY  
Corn (*Zea mays* L.)

NAME OF APPLICANT (S) <b>Pioneer Hi-Bred International, Inc.</b>	TEMPORARY OR EXPERIMENTAL DESIGNATION	VARIETY NAME <b>PH1JYB</b>
ADDRESS (Street and No. or RD No., City, State, Zip Code, and Country) <b><del>7301 NW 62nd Avenue</del> 7100 NW 62nd Avenue</b>		FOR OFFICIAL USE ONLY  <b>201400043</b>
<b>Johnston</b>	<b>Iowa</b> <b>50131-<del>0085</del></b> <b>USA</b>	

In the spaces on the left, enter the appropriate numbers that describe the characteristics of the application variety. On the right, enter the appropriate numbers that describe the characteristics of the most similar comparison variety. Right justify whole numbers by adding leading zeros if necessary. The variety that you choose for comparison should be the most similar one in terms of overall morphology, background and maturity. The comparison variety should be grown in field trials with the application variety for 2-3 location/years (environments) in the region and season of best adaptability. At least one year of trials should be conducted within the United States of America. In general, measurements of quantitative traits should be taken from one trial on 15-25 randomly selected plants or plant parts to obtain averages and statistics that describe a typical field of the variety. (Form technical content last updated Dec. 1992.)

COLOR CHOICES (Use in conjunction with Munsell color code to describe all color choices: describe #25 and #26 in Comments section):

01 = Light Green	06 = Pale Yellow	11 = Pink	16 = Pale Purple	21 = Buff
02 = Medium Green	07 = Yellow	12 = Light Red	17 = Purple	22 = Tan
03 = Dark Green	08 = Yellow-Orange	13 = Cherry Red	18 = Colorless	23 = Brown
04 = Very Dark Green	09 = Salmon	14 = Red	19 = White	24 = Bronze
05 = Green-Yellow	10 = Pink-Orange	15 = Red & White	20 = White Capped	25 = Variegated (Describe)
				26 = Other (Describe)

STANDARD INBRED CHOICES (Use the most similar (in background and maturity) of these to make comparisons based on grow-out trial data):

Yellow Dent Families:	Yellow Dent (Unrelated):	Sweet Corn:
Family Members	Co109, ND246	C13, Iowa5125, P39, 2132
B14 CM105, A632, B64, B68	Oh7, T232	
B37 B37, B76, H84	W117, W153R	Popcorn:
B73 N192, A679, B73, NC268	W182BN	SG1533, 4722, HP301, HP7211
C103 Mo17, Va102, Va35, A682		
Oh43 A619, MS71, H99, Va26	White Dent:	Pipecorn:
Wf9 W64A, A554, A654, Pa91	CI66, H105, Ky228	Mo15W, Mo16W, Mo24W

1. TYPE: (Describe intermediate types in Comments section) 8 1 = Sweet 2 = Dent 3 = Flint 4 = Flour 5 = Pop 6 = Ornamental 7 = Pipecorn 8 = Other (specify) <u>Flint-Dent</u>	Standard Inbred Name: <u>B73</u> 2 Type
2. REGION WHERE DEVELOPED IN THE U.S.A.: 4 1 = Northwest 2 = North central 3 = Northeast 4 = Southeast 5 = South central 6 = Southwest 7 = Other	Standard Seed Source: <u>PI 550473</u> Region Where Developed
Application Variety Data	Standard Inbred Data

Application Variety Data				Standard Inbred Data			
<b>3. MATURITY</b> (In Region Best Adaptability: show Heat Unit Formula in Comments section):							
DAYS	HEAT UNITS			DAYS	HEAT UNITS		
67	1439.0	From emergence to 50% of plants in silk		68	1469.5	50% Silk	
65	1375.5	From emergence to 50% of plants in pollen		66	1424.0	50% Pollen	
3	95.5	From 10% to 90% pollen shed		1	30.0	Pollen Shed Period	
		From 50% silk to optimum edible quality				50% Edible	
		From 50% silk to harvest at 25% moisture				Dry Down Period	
<b>4. PLANT:</b>				<b>Mean</b>			
		Standard Deviation	Sample Size			Standard Deviation	Sample Size
227.3	cm Plant Height (to tassel tip)	8.26	20	218.4	cm Plant Height	7.70	20
76.9	cm Ear Height (to base of top ear node)	7.14	20	96.1	cm Ear Height	7.46	20
15.3	cm Length of Top Ear Internode	1.46	20	14.7	cm Internode	1.26	20
	Average Number of Tillers				No. Tillers		
0.9	Average Number of Ears per Stalk	0.04	2*	0.7	No. Ears/Stalk	0.20	2*
2	Anthocyanin of Brace Roots: 1 = Absent 2 = Faint 3 = Moderate 4 = Dark			3	Brace Root Anthocyanin		
<b>5. LEAF:</b>				<b>Mean</b>			
		Standard Deviation	Sample Size			Standard Deviation	Sample Size
9.7	cm Width of Ear Node Leaf	0.59	20	8.8	cm Leaf Width	0.70	20
77.4	cm Length of Ear Node Leaf	2.35	20	83.6	cm Leaf Length	3.69	20
5.7	Number of leaves above top ear	0.57	20	5.7	No. Top Leaves	0.59	20
24.5	degrees Leaf Angle (measure from 2nd leaf above ear at anthesis to stalk above leaf)	3.94	20	24.0	Leaf Angle	3.08	20
4	Leaf Color (Munsell Code)	7.5GY3/4		4	Leaf Color (Munsell Code)	7.5GY3/4	
4	Leaf Sheath Pubescence (Rate on scale from 1 = none to 9 = like peach fuzz)			1	Leaf Sheath Pubescence		
	Marginal Waves (Rate on scale from 1 = none to 9 = many)				Marginal Waves		
	Longitudinal Creases (Rate on scale from 1 = none to 9 = many)				Longitudinal Creases		
<b>6. TASSEL:</b>				<b>Mean</b>			
		Standard Deviation	Sample Size			Standard Deviation	Sample Size
3.9	Number of Primary Lateral Branches	1.55	20	5.6	No. Tassel Branches	1.32	20
33.7	Branch Angle from Central Spike	9.98	19	16.3	Branch Angle	6.66	20
55.5	cm Tassel Length (From top leaf collar to tassel tip)	3.00	20	49.5	cm Tassel Length	3.85	20
4	Pollen Shed (Rate on Scale from 0 = male sterile to 9 = heavy shed)			4	Pollen Shed Rate		
10	Anther Color (Munsell Code)	10R5/8		11	Anther Color (Munsell Code)	10R7/6	
10	Glume Color (Munsell Code)	2.5YR4/8		14	Glume Color (Munsell Code)	10RP3/8	
1	Bar Glumes (Glume Bands): 1 = Absent 2 = Present			1	Bar Glumes		
Application Variety Data				Standard Inbred Data			

Note: Use chart on first page to choose color codes for color traits.

Application Variety Data				Standard Inbred Data			
<b>7a. EAR (Unhusked Data):</b>							
<u>2</u>	Silk Color (3 days after emergence) (Munsell code)	<u>2.5GY6/6</u>		<u>1</u>	Silk Color (Munsell code)	<u>2.5GY8/6</u>	
<u>2</u>	Fresh Husk Color (25 days after 50% silking) (Munsell code)	<u>2.5GY6/6</u>		<u>2</u>	Fresh Husk Color (Munsell code)	<u>2.5GY6/6</u>	
<u>21</u>	Dry Husk Color (65 days after 50% silking) (Munsell code)	<u>2.5Y8/4</u>		<u>19</u>	Dry Husk Color (Munsell code)	<u>2.5Y9/2</u>	
<u>1</u>	Position of Ear at Dry Husk Stage: 1 = Upright 2 = Horizontal 3 = Pendent			<u>1</u>	Ear Position		
<u>7</u>	Husk Tightness (Rate on scale from 1 = very loose to 9 = very tight)			<u>7</u>	Husk Tightness		
<u>2</u>	Husk Extension (at harvest): 1 = Short (ears exposed) 2 = Medium (<8 cm) 3 = Long (8-10 cm beyond ear tip) 4 = Very Long (>10 cm)			<u>3</u>	Husk Extension		
<b>7b. EAR (Husked Ear Data):</b>							
		Standard Deviation	Sample Size	Mean	Standard Deviation	Sample Size	
<u>17.1</u>	cm Ear Length	<u>1.21</u>	<u>20</u>	<u>13.1</u>	cm Ear Length	<u>1.33</u>	<u>20</u>
<u>39.4</u>	mm Ear Diameter at mid-point	<u>1.82</u>	<u>20</u>	<u>41.6</u>	mm Ear Diameter	<u>1.76</u>	<u>20</u>
<u>109.0</u>	gm Ear Weight	<u>21.81</u>	<u>20</u>	<u>105.0</u>	gm Ear Weight	<u>17.49</u>	<u>20</u>
<u>14.3</u>	Number of Kernel Rows	<u>1.34</u>	<u>20</u>	<u>17.0</u>	No. Kernel Rows	<u>1.38</u>	<u>20</u>
<u>2</u>	Kernel Rows: 1 = Indistinct 2 = Distinct			<u>2</u>	Kernel Rows		
<u>2</u>	Row Alignment: 1 = Straight 2 = Slightly Curved 3 = Spiral			<u>1</u>	Row Alignment		
<u>9.0</u>	cm Shank Length	<u>1.59</u>	<u>20</u>	<u>6.1</u>	cm Shank Length	<u>1.25</u>	<u>20</u>
<u>2</u>	Ear Taper: 1 = Slight 2 = Average 3 = Extreme			<u>1</u>	Ear Taper		
<b>8. KERNEL (Dried):</b>							
		Standard Deviation	Sample Size	Mean	Standard Deviation	Sample Size	
<u>11.3</u>	mm Kernel Length	<u>0.64</u>	<u>20</u>	<u>11.1</u>	mm Kernel Length	<u>0.51</u>	<u>20</u>
<u>8.6</u>	mm Kernel Width	<u>0.69</u>	<u>20</u>	<u>7.1</u>	mm Kernel Width	<u>0.55</u>	<u>20</u>
<u>5.4</u>	mm Kernel Thickness	<u>0.59</u>	<u>20</u>	<u>4.5</u>	mm Kernel Thickness	<u>0.83</u>	<u>20</u>
<u>83.5</u>	% Round Kernels (Shape Grade)	<u>0.71</u>	<u>2**</u>	<u>48.0</u>	% Round Kernels	<u>4.24</u>	<u>2**</u>
<u>1</u>	Aleurone Color Pattern: 1=Homozygous 2=Segregating (Describe _____)			<u>1</u>	Aleurone Color Pattern (Describe) _____		
<u>7</u>	Aleurone Color (Munsell code)	<u>10YR7/14</u>		<u>7</u>	Aleurone Color (Munsell code)	<u>10YR7/14</u>	
<u>7</u>	Hard Endosperm Color (Munsell code)	<u>10YR7/14</u>		<u>7</u>	Endosperm Color (Munsell code)	<u>10YR7/12</u>	
<u>3</u>	Endosperm Type: 1 = Sweet (su1) 2 = Extra Sweet (sh2) 3 = Normal Starch 4 = High Amylose Starch 5 = Waxy Starch 6 = High Protein 7 = High Lysine 8 = Super Sweet (se) 9 = High Oil 10 = Other _____			<u>3</u>	Endosperm Type _____		
<u>36.5</u>	gm Weight per 100 Kernels (unsized sample)	<u>0.71</u>	<u>2**</u>	<u>27.5</u>	gm Kernel Wt.	<u>2.12</u>	<u>2**</u>
<b>9. COB:</b>							
		Standard Deviation	Sample Size	Mean	Standard Deviation	Sample Size	
<u>23.1</u>	mm Cob Diameter at mid-point	<u>1.00</u>	<u>20</u>	<u>26.9</u>	mm Cob Diameter	<u>1.52</u>	<u>20</u>
<u>14</u>	Cob Color (Munsell code)	<u>10R3/8</u>		<u>10</u>	Cob Color (Munsell code)	<u>2.5YR4/8</u>	
Application Variety Data				Standard Inbred Data			

Application Variety Data	Standard Inbred Data
<b>10. DISEASE RESISTANCE</b> (Rate from 1 (most susceptible) to 9 (most resistant); leave blank if not tested; leave Race or Strain Options blank if polygenic):	
<b>A. Leaf Blights, Wilts, and Local Infection Diseases</b>	
<input type="checkbox"/> Anthracnose Leaf Blight ( <i>Colletotrichum graminicola</i> ) <input type="checkbox"/> Common Rust ( <i>Puccinia sorghi</i> ) <input type="checkbox"/> Common Smut ( <i>Ustilago maydis</i> ) <input type="checkbox"/> Eyespot ( <i>Kabatiella zeae</i> ) <input type="checkbox"/> Goss's Wilt ( <i>Clavibacter michiganense</i> spp. <i>nebraskense</i> ) <input checked="" type="checkbox"/> 5 Gray Leaf Spot ( <i>Cercospora zeae-maydis</i> ) <input type="checkbox"/> Helminthosporium Leaf Spot ( <i>Bipolaris zeicola</i> ) Race _____ <input checked="" type="checkbox"/> 5 Northern Leaf Blight ( <i>Exserohilum turcicum</i> ) Race _____ <input checked="" type="checkbox"/> 5 Southern Leaf Blight ( <i>Bipolaris maydis</i> ) Race _____ <input type="checkbox"/> Southern Rust ( <i>Puccinia polysora</i> ) <input type="checkbox"/> Stewart's Wilt ( <i>Erwinia stewartii</i> ) <input type="checkbox"/> Other (Specify) _____	<input type="checkbox"/> Anthracnose Leaf Blight <input type="checkbox"/> Common Rust <input type="checkbox"/> Common Smut <input type="checkbox"/> Eyespot <input type="checkbox"/> Goss's Wilt <input checked="" type="checkbox"/> 3 Gray Leaf Spot <input type="checkbox"/> Helminthosporium Leaf Spot Race _____ <input checked="" type="checkbox"/> 4 Northern Leaf Blight Race _____ <input checked="" type="checkbox"/> 3 Southern Leaf Blight Race _____ <input type="checkbox"/> Southern Rust <input type="checkbox"/> Stewart's Wilt <input type="checkbox"/> Other (Specify) _____
<b>B. Systemic Diseases</b>	
<input type="checkbox"/> Corn Lethal Necrosis (MCMV and MDMV) <input checked="" type="checkbox"/> 7 Head Smut ( <i>Sphacelotheca reiliana</i> ) <input type="checkbox"/> Maize Chlorotic Dwarf Virus (MCDV) <input type="checkbox"/> Maize Chlorotic Mottle Virus (MCMV) <input type="checkbox"/> Maize Dwarf Mosaic Virus (MDMV) Strain _____ <input type="checkbox"/> Sorghum Downy Mildew of Corn ( <i>Peronosclerospora sorghi</i> ) <input type="checkbox"/> Other (Specify) _____	<input type="checkbox"/> Corn Lethal Necrosis <input checked="" type="checkbox"/> 6 Head Smut <input type="checkbox"/> Maize Chlorotic Dwarf Virus <input type="checkbox"/> Maize Chlorotic Mottle Virus <input type="checkbox"/> Maize Dwarf Mosaic Virus Strain _____ <input type="checkbox"/> Sorghum Downy Mildew of Corn <input type="checkbox"/> Other (Specify) _____
<b>C. Stalk Rots</b>	
<input type="checkbox"/> Anthracnose Stalk Rot ( <i>Colletotrichum graminicola</i> ) <input type="checkbox"/> Diplodia Stalk Rot ( <i>Stenocarpella maydis</i> ) <input type="checkbox"/> Fusarium Stalk Rot ( <i>Fusarium moniliforme</i> ) <input type="checkbox"/> Gibberella Stalk Rot ( <i>Gibberella zeae</i> ) <input type="checkbox"/> Other (Specify) _____	<input type="checkbox"/> Anthracnose Stalk Rot <input type="checkbox"/> Diplodia Stalk Rot <input type="checkbox"/> Fusarium Stalk Rot <input type="checkbox"/> Gibberella Stalk Rot <input type="checkbox"/> Other (Specify) _____
<b>D. Ear and Kernel Rots</b>	
<input type="checkbox"/> Aspergillus Ear and Kernel Rot ( <i>Aspergillus flavus</i> ) <input type="checkbox"/> Diplodia Ear Rot ( <i>Stenocarpella maydis</i> ) <input checked="" type="checkbox"/> 5 Fusarium Ear and Kernel Rot ( <i>Fusarium moniliforme</i> ) <input type="checkbox"/> Gibberella Ear Rot ( <i>Gibberella zeae</i> ) <input type="checkbox"/> Other (Specify) _____	<input type="checkbox"/> Aspergillus Ear and Kernel Rot <input type="checkbox"/> Diplodia Ear Rot <input checked="" type="checkbox"/> 6 Fusarium Ear and Kernel Rot <input type="checkbox"/> Gibberella Ear Rot <input type="checkbox"/> Other (Specify) _____
<b>11. INSECT RESISTANCE</b> (Rate from 1 (most susceptible) to 9 (most resistant); Leave blank if not tested):	
Standard Deviation    Sample Size	Standard Deviation    Sample Size
<input type="checkbox"/> Banks Grass Mite ( <i>Oligonychus pratensis</i> )	<input type="checkbox"/> Banks Grass Mite
<b>Corn Earworm (<i>Helicoverpa zea</i>)</b> <input type="checkbox"/> Leaf-Feeding <input type="checkbox"/> Silk Feeding: _____ mg larval wt. _____ <input type="checkbox"/> Ear Damage	<b>Corn Earworm</b> <input type="checkbox"/> Leaf-Feeding <input type="checkbox"/> Silk Feeding: _____ <input type="checkbox"/> Ear Damage
<input type="checkbox"/> Corn Leaf Aphid ( <i>Rhopalosiphum maidis</i> ) <input type="checkbox"/> Corn Sap Beetle ( <i>Carpophilus dimidiatus</i> )	<input type="checkbox"/> Corn Leaf Aphid <input type="checkbox"/> Corn Sap Beetle
<b>European Corn Borer (<i>Ostrinia nubilalis</i>)</b> <input type="checkbox"/> 1st Generation (Typically Whorl Leaf Feeding) <input type="checkbox"/> 2nd Generation (Typically Leaf Sheath-Collar Feeding)  <b>Stalk Tunneling:</b> <input type="checkbox"/> _____ cm tunneled/plant _____	<b>European Corn Borer</b> <input type="checkbox"/> 1st Generation <input type="checkbox"/> 2nd Generation  <b>Stalk Tunneling:</b> <input type="checkbox"/> _____ cm tunneled/plant _____
<b>Fall Armyworm (<i>Spodoptera frugiperda</i>)</b> <input type="checkbox"/> Leaf-Feeding <input type="checkbox"/> Silk Feeding: _____ mg larval wt. _____	<b>Fall Armyworm</b> <input type="checkbox"/> Leaf-Feeding <input type="checkbox"/> Silk Feeding: _____ mg larval wt. _____
Application Variety Data	Standard Inbred Data

Application Variety Data	Standard Inbred Data
<b>11. INSECT RESISTANCE (continued):</b>	
<div style="text-align: right;">Standard Deviation    Sample Size</div> <div>_____ Maize Weevil (<i>Sitophilus zeamais</i>)</div> <div>_____ Northern Rootworm (<i>Diabrotica barberi</i>)</div> <div>_____ Southern Rootworm (<i>Diabrotica undecimpunctata</i>)</div> <div>Southwestern Corn Borer (<i>Diatraea grandiosella</i>)</div> <div>_____ Leaf-Feeding</div> <div>_____ Stalk Tunneling: _____ cm tunneled/plant _____</div> <div>_____ Two-spotted Spider Mite (<i>Tetranychus urticae</i>)</div> <div>_____ Western Rootworm (<i>Diabrotica virgifera virgifera</i>)</div> <div>_____ Other (Specify) _____</div>	<div style="text-align: right;">Standard Deviation    Sample Size</div> <div>_____ Maize Weevil</div> <div>_____ Northern Rootworm</div> <div>_____ Southern Rootworm</div> <div>Southwestern Corn Borer</div> <div>_____ Leaf-Feeding</div> <div>_____ Stalk Tunneling _____</div> <div>_____ Two-spotted Spider Mite</div> <div>_____ Western Rootworm</div> <div>_____ Other (Specify) _____</div>
<b>12. AGRONOMIC TRAITS:</b>	
<div>_____ Stay Green (at 65 days after anthesis)</div> <div>(Rate on a scale of 1 = worst to 9 = excellent)</div> <div>_____ % Dropped Ears (at 65 days after anthesis)</div> <div>_____ % Pre-anthesis Brittle Snapping</div> <div>_____ % Pre-anthesis Root Lodging</div> <div>_____ % Post-anthesis Root Lodging (at 65 days after anthesis)</div> <div>_____ Kg/ha Yield of Inbred Per Se (at 12-13% grain moisture)</div>	<div>_____ Stay Green</div> <div>_____ % Dropped ears</div> <div>_____ % Pre-anthesis Brittle Snapping</div> <div>_____ % Pre-anthesis Root Lodging</div> <div>_____ % Post-anthesis Root Lodging</div> <div>_____ Yield</div>

**13. MOLECULAR MARKERS:** (0 = data unavailable; 1 = data available but not supplied; 2 = data supplied)

\_\_\_\_\_ Isozymes    \_\_\_\_\_ RFLP's    \_\_\_\_\_ RAPD's    1 Other (Specify)    \_\_\_\_\_ SNPs

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**COMMENTS:** (e.g., state how heat units were calculated, standard inbred seed source, and/or where data was collected. Continue in Exhibit D.)

\*Sample number reflects the number of plots where the trait(s) was observed and not the number of individual plants scored. Please see 'CLARIFICATION OF DATA IN EXHIBITS B AND C' for details of how plots were set up.

\*\* For these plot-level traits, kernels from approximately 5 representative ears were sampled. 100 unsized kernels were counted and weighed. Up to 500 grams of kernels were sized by a 13/64 inch slot screen.

Insect, disease, brittle snapping, yield and root lodging data are collected mainly from environments where variability for the trait can be obtained within the experiment.

REPRODUCE LOCALLY. Include form number and date on all reproductions.

Form Approved OMB NO 0581-0055

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE**EXHIBIT E  
STATEMENT OF THE BASIS OF OWNERSHIP**

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S)  <b>Pioneer Hi-Bred International, Inc.</b>	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME  <b>PH1JYB</b>
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)  <b>7100 NW 62nd Avenue P. O. Box 1014 Johnston, Iowa 50131-1014 USA</b>	5. TELEPHONE (Include area code)  <b>(515) 535-<del>6975</del> 3200</b>	6. FAX (Include area code)  <b>(515) 535-<del>7125</del> 4590</b>
	7. PVPO NUMBER  <b>201400043</b>	

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain. ☒ YES ☐ NO9. Is the applicant a U.S. national or a U.S. based entity? If no, give name of country. ☒ YES ☐ NO10. Is the applicant the original owner? ☒ YES ☐ NO If no, please answer one of the following:a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?  
☐ YES ☐ NO If no, give name of country: \_\_\_\_\_b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?  
☐ YES ☐ NO If no, give name of country: \_\_\_\_\_

11. Additional explanation on ownership (Trace ownership from original breeder to current owner. Use the reverse for extra space if needed):

Pioneer Hi-Bred International, Inc. (PHI), Des Moines, Iowa, and/or its wholly owned subsidiary Pioneer Overseas Corporation (POC), Des Moines, Iowa, is the employer of the plant breeders involved in the selection and development of PH1JYB. Pioneer Hi-Bred International and/or Pioneer Overseas Corporation has the sole rights and ownership of PH1JYB pursuant to written contracts that assign all rights in the variety to PHI and/or POC at the time such variety was created. No rights to this variety are retained by any individuals.

**PLEASE NOTE:**

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 0.1 hour per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

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**U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
SCIENCE AND TECHNOLOGY  
PLANT VARIETY PROTECTION OFFICE  
BELTSVILLE, MD 20705**

**EXHIBIT F  
DECLARATION REGARDING DEPOSIT**

<b>NAME OF OWNER (S)</b>  <b>Pioneer Hi-Bred International, Inc.</b>	<b>ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country)</b>  <b>7100 NW 62nd Avenue P. O. Box 1014 Johnston, Iowa 50131-1014 USA</b>	<b>TEMPORARY OR EXPERIMENTAL DESIGNATION</b>  <b>VARIETY NAME</b>  <b>PH1JYB</b>
<b>NAME OF OWNER REPRESENTATIVE(S)</b>  <b>Bradford D. Hall</b>	<b>ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country)</b>  <b>Pioneer Hi-Bred International, Inc. 7301 NW 62nd Avenue PO Box 85 Johnston, Iowa 50131-0085 USA</b>	<b>FOR OFFICIAL USE ONLY</b>  <b>PVPO NUMBER</b>  <b>201400043</b>

I do hereby declare that during the life of the certificate a viable sample of propagating material of the subject variety will be deposited, and replenished as needed periodically, in a public repository in the United States in accordance with the regulations established by the Plant Variety Protection Office.

 Digitally signed by  
Bradford D. Hall  
Date: 2013.10.30  
09:50:32 -05'00'

Signature

10/30/13

Date